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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/694,108	10/27/2003	Donald J. Stavelly	200300193-1	3071

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INTELLECTUAL PROPERTY ADMINISTRATION  
FORT COLLINS, CO 80527-2400

EXAMINER
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HERNANDEZ, NELSON D

ART UNIT	PAPER NUMBER
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2622

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	03/09/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/694,108	<b>Applicant(s)</b> STAVELY ET AL.	
	<b>Examiner</b> Nelson D. Hernandez	<b>Art Unit</b> 2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 08 December 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>10/27/2003</u> . | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Drawings*

1. The drawings were received on December 8, 2003. These drawings are acceptable.

### *Claim Rejections - 35 USC § 101*

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. **Claim 25** is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. As disclosed in the (See page 11, ¶ 51), "In the context of this specification, a "computer-readable medium" can be any means that can store, communicate, propagate, or transport the data associated with, used by or in connection with the instruction execution system, apparatus, and/or device. The computer-readable medium can be, for example, but not limited to, an electronic, magnetic, optical, electromagnetic, infrared, or semiconductor system, apparatus, device, or propagation medium now known or later developed". As disclosed in the specifications, the "computer-readable medium" is defined as a signal (an electronic, magnetic, optical, electromagnetic, infrared, or semiconductor system, apparatus, device, or propagation medium). A signal is not tangibly embodied.

Also, **claim 25** recites "A computer readable medium having a program for displaying image composition templates with preview images, the program comprising

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logic configured to perform the steps of: ...". "A computer readable medium" as claimed does not define structural and functional interrelationships between the data structure, the computer software and hardware components, which permit the data structure to be realized. Since a computer program is merely a set of instructions capable of being executed by a computer, the program logic itself is not a process; therefore the invention as claimed is non-statutory. For examining purposes the claim will be read as "A computer-readable medium having a program for displaying image composition templates with preview images, the program comprising logic that when executed by an image capturing device would perform the steps of: ...".

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. **Claims 1, 2-4, 8-14, 17-19 and 21-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Mukai et al., US Patent 5,557,358.**

**Regarding claim 1**, Mukai et al. discloses a system (Figs. 1 and 22), comprising: at least one image composition template (reference line (see fig. 15C), pattern (see figs. 17A-17C), moving subject pattern (See fig. 19A)) corresponding to a predefined subject matter; a photosensor (Fig. 22: 40) configured to sense an image; a display (Fig. 1: 16 and fig. 22: 32) configured to display a preview image corresponding to the sensed

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image; and a processor (Fig. 22: 30) configured to analyze at least one characteristic of the preview image (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58), determine a nature of the preview image (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58), and select the image composition template when the nature of the preview image corresponds to the image composition template (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58; col. 10, line 59 – col. 11, line 28; See also figs. 14, 16 and 18).

**Regarding claim 2**, Mukai et al. discloses a plurality of image composition templates (reference line (see fig. 15C), pattern (see figs. 17A-17C), each of the image composition templates associated with at least one of a plurality of preview image natures (whether is a line related to the horizon is detected in the image; whether the object is moving, whether the relationship between the size of the subject and the rest of the image is appropriate; col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58), a corresponding one of the image composition templates being selected when one of the preview images natures are determined (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58; col. 10, line 59 – col. 11, line 28; See also figs. 14, 16 and 18).

**Regarding claim 3**, limitations can be found in claim 2.

**Regarding claim 4**, Mukai et al. discloses a controller (CPU 30 in conjunction with operation member 42 as shown in fig. 22) configured to select one of the plurality of image composition templates associated with the nature of the preview image (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58; col. 10, line 59 – col. 11, line 28; See also figs. 14, 16 and 18).

**Regarding claim 8**, Mukai et al. discloses a viewfinder (Fig. 1: 16), the viewfinder configured to display a view of the preview image concurrently with the image composition template (See figs. 15C, 17B and 19A).

**Regarding claim 9**, limitations can be found in claim 8.

**Regarding claim 10**, Mukai et al. discloses a method comprising the steps of: analyzing at least one characteristic of a preview image (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58); determining a nature of the preview image based upon the analyzed characteristic (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58); selecting an image composition template (reference line (see fig. 15C), pattern (see figs. 17A-17C), moving subject pattern (See fig. 19A)) corresponding to the determined nature of the preview image (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58); and displaying (using electronic viewfinder 16 as shown in fig. 1) the selected image composition template concurrently with the preview image (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58; col. 10, line 59 – col. 11, line 28; See also figs. 14, 16 and 18).

**Regarding claim 11**, Mukai et al. discloses the step of receiving data corresponding to the preview image from a photosensor (Fig. 22: 40; col. 10, lines 59-68; col. 11, lines 32-52).

**Regarding claim 12**, limitations can be found in claim 8.

**Regarding claim 13**, limitations can be found in claim 8.

**Regarding claim 14**, Mukai et al. discloses capturing an image corresponding to the preview image with an image capture device; and saving captured image data

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corresponding to the captured image (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58; col. 10, line 36 – col. 11, line 28; See also figs. 14, 16 and 18).

**Regarding claim 17**, limitations can be found in claim 14.

**Regarding claim 18**, limitations can be found in claim 2.

**Regarding claim 19**, limitations can be found in claim 2.

**Regarding claim 21**, Mukai et al. discloses a system (Figs. 1 and 22) for displaying image composition templates (reference line (see fig. 15C), pattern (see figs. 17A-17C) with preview images, comprising: means (Fig. 22: 31) for displaying a preview image on a display (Fig. 22: 32); means for analyzing at least one characteristic of the preview image (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58); means for determining a nature of the preview image based upon the analyzed characteristic (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58); means for selecting an image composition template corresponding to the determined nature of the preview image (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58); and means for displaying the selected image composition template concurrently with the preview image (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58; col. 10, line 59 – col. 11, line 28; See also figs. 14, 16 and 18).

**Regarding claim 22**, limitations can be found in claim 8.

**Regarding claim 23**, limitations can be found in claim 8.

**Regarding claim 24**, Mukai et al. discloses means (Fig. 22: 40; col. 10, lines 59-68; col. 11, lines 32-52) for capturing an image corresponding to the preview image with an image capture device; and means for saving captured image data corresponding to

the captured image (Col. 6, line 49 – col. 7, line 62; col. 8, line 61 – col. 9, line 58; col. 10, line 36 – col. 11, line 28; See also figs. 14, 16 and 18).

**Regarding claim 25**, claim 25 recites a computer-readable medium having a program for displaying image composition templates with preview images, the program comprising logic that when executed by an image capturing device would perform the steps performed by the apparatus in claim 1 and 21. Therefore, grounds for rejecting claims 1 and 21 apply here.

### ***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. **Claims 5, 7 and 20 rejected under 35 U.S.C. 103(a) as being unpatentable over Mukai et al., US Patent 5,557,358 in view of Soga et al., US Patent 6,806,906 B1.**

**Regarding claim 5**, Mukai et al. does not explicitly disclose a menu displayed on the display, the menu configured to select one of the plurality of image composition templates associated with the nature of the preview image.

However, Soga et al. teaches a digital camera (See fig. 1) comprising a composition assist function (See figs. 4-6), wherein a menu (See figs. 4 and 5) is displayed on the display of the camera (Col. 5, lines 35-56), the menu configured to



select one of the plurality of image composition templates associated with the nature of the preview image (Col. 4, line 38 – col. 6, line 51; col. 8, lines 4-67).

Therefore, taking the combined teaching of Mukai et al. in view of Soga et al. as a whole, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Mukai et al. by having a menu displayed on the display, the menu configured to select one of the plurality of image composition templates associated with the nature of the preview image. The motivation to do so would have been to, while observing the assistance lines being displayed on the display unit, the user can decide the composition of the subject in such a manner that the subject is disposed in accordance with the assistance lines and even a beginner, therefore, can use freely a variety of photographic techniques as suggested by Soga et al. (Col. 1, line 66 – col. 2, line 8).

**Regarding claim 7**, the combined teaching of Mukai et al. in view of Soga et al. as applied to claim 5 teaches a memory (Soga et al., fig. 3: 18) configured to store the image composition template (See Soga et al., col. 5, lines 23-34).

**Regarding claim 20**, limitations can be found in claim 7.

**8. Claims 6, 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mukai et al., US Patent 5,557,358 in view of Windle, US Patent 6,606,117 B1.**

**Regarding claim 6**, Mukai et al. does not explicitly disclose a memory configured to store logic configured to analyze the nature of the preview image.

However, having a memory to analyze the nature of image data for composition assist is well known in the art as taught by Windle. Windle teaches an image composition assist system (See fig. 1) comprising a memory (Fig. 1: 103; col. 3, lines 8-24; col. 13, line 65 – col. 14, line 13) for storing image composition program code to analyze and enhance the composition of the image data being captured by a digital camera (Col. 3, lines 8-24; col. 4, lines 39-62; col. 13, line 65 – col. 14, line 13).

Therefore, taking the combined teaching of Mukai et al. in view of Windle as a whole, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Mukai et al. to have a memory configured to store logic configured to analyze the nature of the preview image. The motivation to do so would have been to improve the performance to the system by having the processor analyzing the image data based on a code that can be changed or updated to improve the performance to the system.

**Regarding claim 15**, the combined teaching of Mukai et al. in view of Windle as applied to claim 6 teaches saving the selected image composition template as part of the captured image data (See Windle, col. 5, lines 20-49; col. 6, lines 26-58).

**Regarding claim 16**, the combined teaching of Mukai et al. in view of Windle as applied to claim 6 teaches associating the selected image composition template with the captured image data (See Windle, col. 5, lines 20-49; col. 6, lines 26-58); and saving the selected image composition template (See Windle, col. 5, lines 20-49; col. 6, lines 26-58).

**Contact**

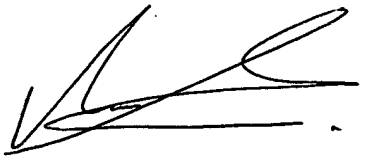
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nelson D. Hernandez whose telephone number is (571) 272-7311. The examiner can normally be reached on 8:30 A.M. to 6:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivek Srivastava can be reached on (571) 272-7304. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Nelson D. Hernandez  
Examiner  
Art Unit 2622

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March 2, 2007



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